Delaware River Basin Commission

Perfluorinated
Compounds (PFCs)
in
Tidal and Non-tidal
Delaware River Fish



Toxics Advisory Committee
January 6, 2016







PFCs in Fish

Tidal
white perch,
PFUnA (C11) > PFDA (C10) > PFOS (C8S)

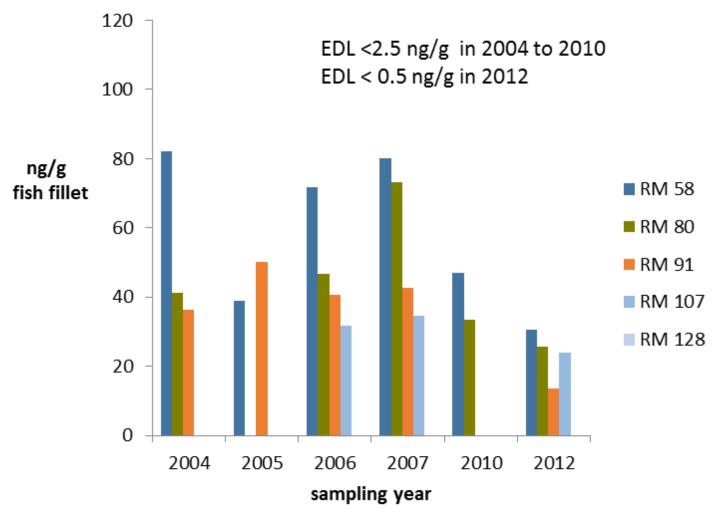
channel catfish PFUnA (C11)



PFUnA (C11) in White Perch from Delaware Estuary 120 EDL <2.5 ng/g in 2004 to 2010 EDL < 0.5 ng/g in 2012100 80 ng/g ■ RM 58 fish fillet 60 ■ RM 80 ■ RM 91 40 RM 107 RM 128 20 2004 2005 2006 2007 2010 2012 sampling year

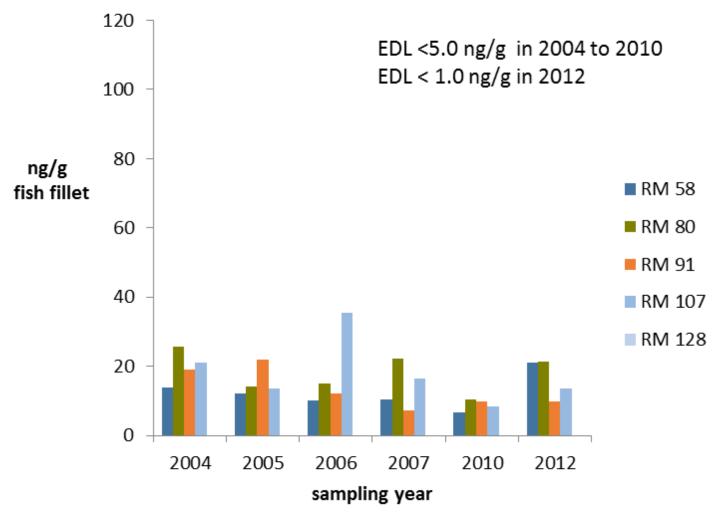


PFDA (C10) in White Perch from Delaware Estuary





PFOS (C8) in White Perch from Delaware Estuary

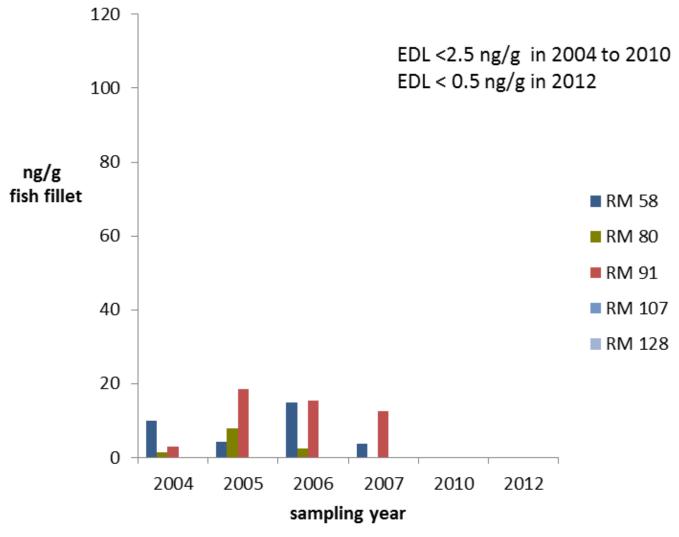




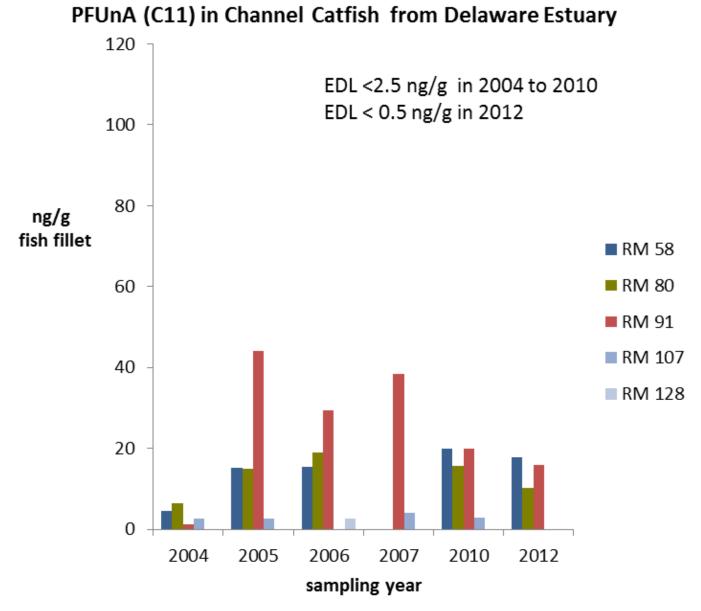
PFOSA (C8) in White Perch from Delaware Estuary 40 EDL <2.5 ng/g in 2004 to 2010 35 EDL < 0.5 ng/g in 201230 ng/g 25 ■ RM 58 fish fillet ■ RM 80 20 RM 91 15 RM 107 10 RM 128 5 0 2004 2005 2006 2007 2010 2012 sampling year



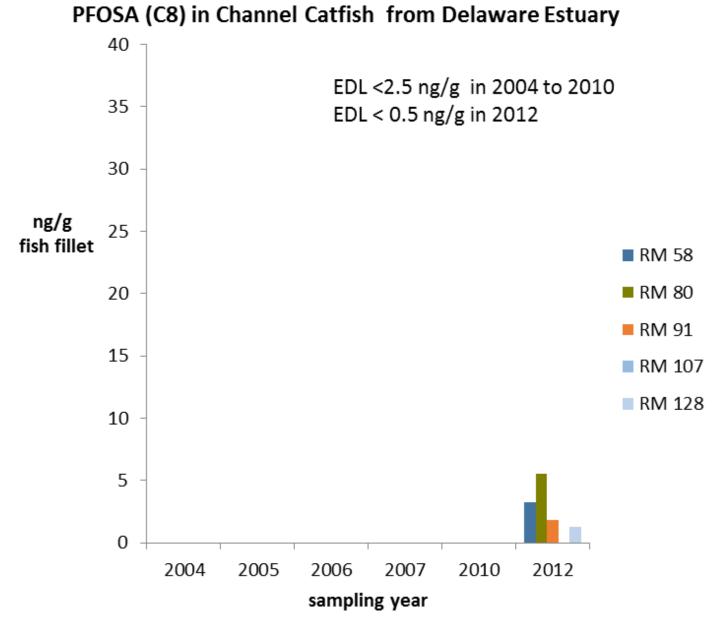
PFNA (C9) in White Perch from Delaware Estuary $_{\rm 120}$ $_{\rm extstyle }$

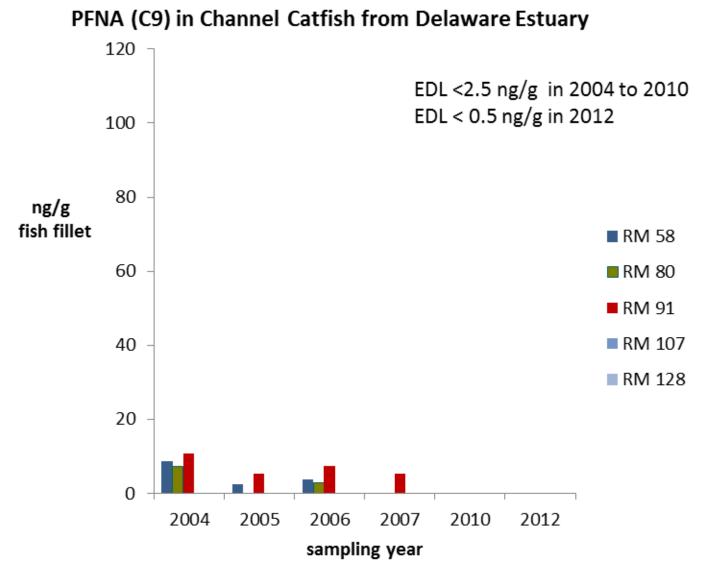












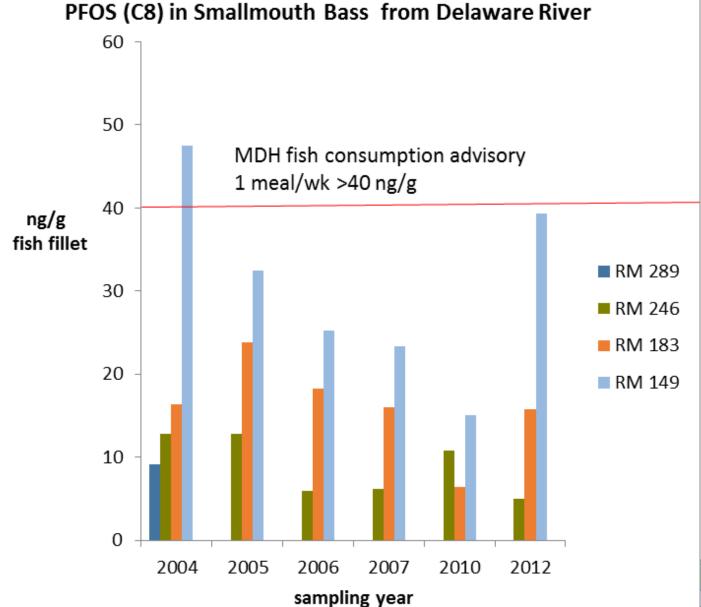


PFCs in Fish

Non-tidal smallmouth bass PFOS (C8S)

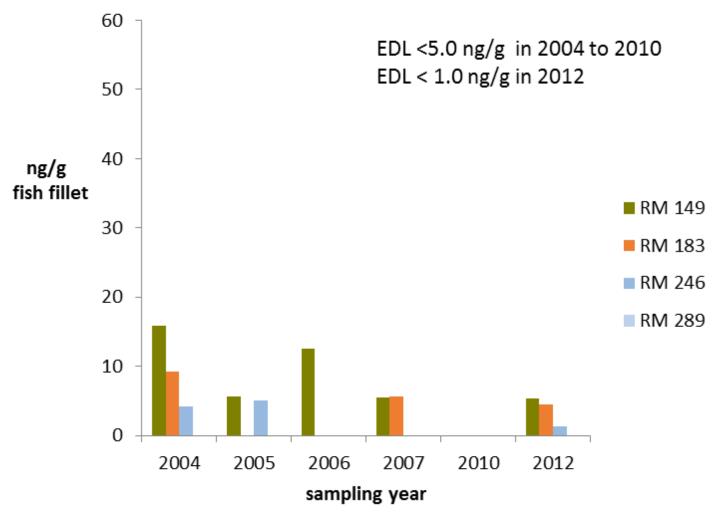
white sucker PFOS (C8S)







PFOS (C8) in White Sucker from Delaware River





Summary

- * Concentrations of PFCs in resident fish of the Delaware River vary by species, sample location and sample year.
- * Concentrations appear to be substantially decreasing for PFNA and PFUnA, somewhat decreasing for PFDA, not decreasing for PFOS and unclear for PFOSA.



Next

Compare 2015 fish tissue data (when available) to 2004, 2005, 2006, 2007, 2010, 2012 data

